

Remarks

With the entry of the above amendment, claims 1-20 will be pending in this case. Applicant respectfully requests that the foregoing amendments be made prior to examination of the present application. Applicant respectfully requests entry of the above amendments in order to remove multiple dependencies and correct informalities. A first office action on the merits is awaited.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date:

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

6. (Amended) The device of [one of claims] claim 1 [to 5], wherein the sense amplifier array includes:

a plurality of sub sense amplifier arrays, each sub sense amplifier comprising a predetermined number of sense amplifiers;

a plurality of local controllers for receiving a column address bit, and outputting a common control signal to a sense amplifier into the predetermined number of sub sense amplifier arrays; and

a global controller for outputting a common control signal into all sense amplifiers in the sense amplifier array.

18. (Amended) The device of [one of claims] claim 12 [to 17], wherein the connection portion between the column selection controller and the data bus unit includes:

a first layer including the column selection controller having a source connected to the main bitline and a drain connected to a first shared layer;

a second layer including a second shared layer for connecting the first shared layer to a data bus line of the data bus unit; and

a third layer including the data bus unit,

wherein the second layer is disposed below the first layer and the third layer is disposed below the second layer.